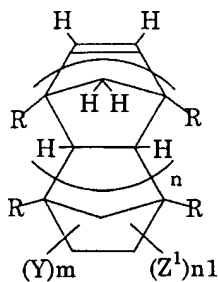


**AMENDMENTS TO THE CLAIMS**

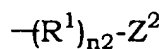
**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

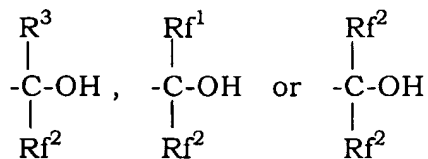
1. (canceled).
2. (original): A process for preparing a fluorine-containing norbornene derivative having a fluorine-containing tertiary alcohol structure which is represented by the formula (4):



wherein Z<sup>1</sup> is the same or different and each is:

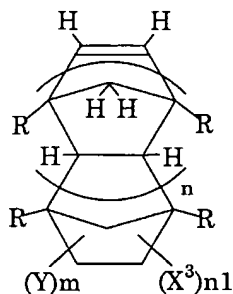


in which Z<sup>2</sup> is:

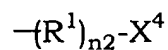


wherein Rf<sup>1</sup> is a fluorine-containing alkyl group having 1 to 10 carbon atoms or a fluorine-containing alkyl group which has 1 to 10 carbon atoms and ether bond, Rf<sup>2</sup> is a fluorine-

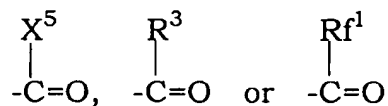
containing alkyl group having 1 to 10 carbon atoms or a fluorine-containing alkyl group which has 1 to 10 carbon atoms and ether bond,  $R^3$  is H or a hydrocarbon group having 1 to 10 carbon atoms,  $R^1$  is a divalent organic group,  $n_2$  is 0 or 1; Y is the same or different and each is H, F, Cl, an alkyl group having 1 to 10 carbon atoms or a fluorine-containing alkyl group which has 1 to 10 carbon atoms and may have ether bond; R is the same or different and each is H or an alkyl group having 1 to 10 carbon atoms; n is 0 or an integer of from 1 to 5; m is an integer of from 1 to 5;  $n_1$  is an integer of from 1 to 5;  $m + n_1 = 6$ , said process being characterized by reacting a norbornene derivative represented by the formula (3):



wherein  $X^3$  is the same or different and each is:



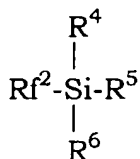
in which  $X^4$  is  $-\text{COOR}^2$ ,



wherein  $R^2$  is an alkyl group having 1 to 5 carbon atoms,  $X^5$  is halogen atom;  $R^3$ ,  $R^f$ ,  $R^1$ ,  $Y$ ,  $R$ ,  $m$ ,  $n$ ,  $n1$  and  $n2$  are as defined above, with a fluoroalkylation agent which introduces  $R^f$  to  $X^4$ .

3. (canceled).

4. (original): The preparation process of Claim 2, wherein the fluoroalkylation agent is a fluorosilane compound represented by:



wherein  $R^f$  is a fluorine-containing alkyl group having 1 to 10 carbon atoms or a fluorine-containing alkyl group which has 1 to 10 carbon atoms and ether bond;  $R^4$ ,  $R^5$  and  $R^6$  are the same or different and each is a hydrocarbon group having 1 to 10 carbon atoms.

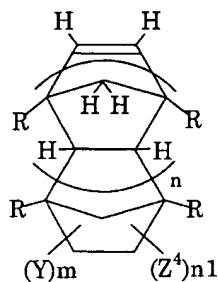
5. (canceled).

6. (canceled).

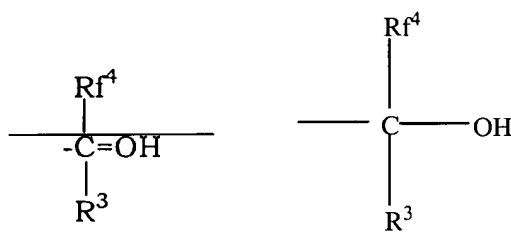
7. (canceled).

8. (canceled).

9. (currently amended): A norbornene derivative having a fluorine-containing alcohol structure represented by the formula (8):

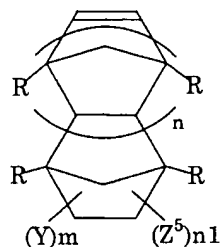


wherein  $Z^4$  is the same or different and each is:

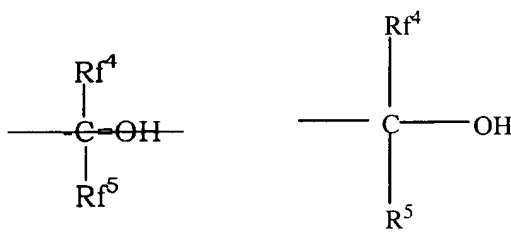


in which  $Rf^4$  is the same or different and each is a fluorine-containing alkyl group having 1 to 10 carbon atoms or a fluorine-containing alkyl group which has 1 to 10 carbon atoms and ether bond,  $R^3$  is H or a hydrocarbon group having 1 to 10 carbon atoms; Y is the same or different and each is H, F, Cl, an alkyl group having 1 to 10 carbon atoms or a fluorine-containing alkyl group which has 1 to 10 carbon atoms and may have ether bond; R is the same or different and each is H or an alkyl group having 1 to 10 carbon atoms; n is 0 or an integer of from 1 to 5; m is an integer of from 1 to 5;  $n1$  is an integer of from 1 to 5;  $m + n1 = 6$ .

10. (currently amended): A norbornene derivative having a fluorine-containing alcohol structure represented by the formula (9):

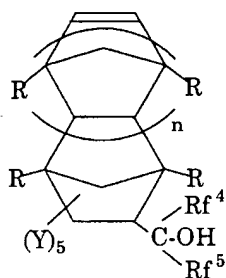


wherein  $Z^5$  is the same or different and each is:



in which  $Rf^4$  and  $Rf^5$  are the same or different and each is a fluorine-containing alkyl group having 1 to 10 carbon atoms or a fluorine-containing alkyl group which has 1 to 10 carbon atoms and ether bond; Y is the same or different and each is H, F, Cl, an alkyl group having 1 to 10 carbon atoms or a fluorine-containing alkyl group which has 1 to 10 carbon atoms and may have ether bond; R is the same or different and each is H or an alkyl group having 1 to 10 carbon atoms; n is 0 or an integer of from 1 to 5; m is an integer of from 1 to 5;  $n1$  is an integer of from 1 to 5;  $m + n1 = 6$ .

11. (original): A norbornene derivative having a fluorine-containing alcohol structure represented by the formula (10):

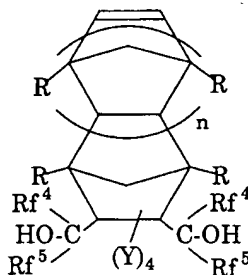


wherein Rf<sup>4</sup> and Rf<sup>5</sup> are the same or different and each is a fluorine-containing alkyl group having 1 to 10 carbon atoms or a fluorine-containing alkyl group which has 1 to 10 carbon atoms and ether bond; Y is the same or different and each is H, F, Cl, an alkyl group having 1 to 10 carbon atoms or a fluorine-containing alkyl group which has 1 to 10 carbon atoms and may have ether bond; R is the same or different and each is H or an alkyl group having 1 to 10 carbon atoms; n is 0 or an integer of from 1 to 5.

12. (original): The norbornene derivative having a fluorine-containing alcohol structure of Claim 10, wherein in the formula (9), at least one of the substituents Y is F or a fluorine-containing alkyl group which has 1 to 10 carbon atoms and may have ether bond.

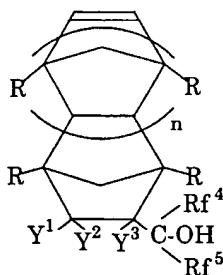
13. (original): The norbornene derivative having a fluorine-containing alcohol structure of Claim 11, wherein in the formula (10), at least one of the substituents Y is F or a fluorine-containing alkyl group which has 1 to 10 carbon atoms and may have ether bond.

14. (original): A norbornene derivative having a fluorine-containing alcohol structure represented by the formula (11):



wherein Rf<sup>4</sup> and Rf<sup>5</sup> are the same or different and each is a fluorine-containing alkyl group having 1 to 10 carbon atoms or a fluorine-containing alkyl group which has 1 to 10 carbon atoms and ether bond; Y is the same or different and each is H, F, Cl, an alkyl group having 1 to 10 carbon atoms or a fluorine-containing alkyl group which has 1 to 10 carbon atoms and may have ether bond; R is the same or different and each is H or an alkyl group having 1 to 10 carbon atoms; n is 0 or an integer of from 1 to 5.

15. (original): A norbornene derivative having a fluorine-containing alcohol structure represented by the formula (12):



wherein Rf<sup>4</sup> and Rf<sup>5</sup> are the same or different and each is a fluorine-containing alkyl group having 1 to 10 carbon atoms or a fluorine-containing alkyl group which has 1 to 10 carbon atoms and ether bond; Y<sup>1</sup>, Y<sup>2</sup> and Y<sup>3</sup> are the same or different and each is H, F, Cl, an alkyl group having 1 to 10 carbon atoms or a fluorine-containing alkyl group which has 1 to 10 carbon atoms

and may have ether bond; R is the same or different and each is H or an alkyl group having 1 to 10 carbon atoms; n is 0 or an integer of from 1 to 5; at least one of  $Y^1$ ,  $Y^2$  and  $Y^3$  is F or a fluorine-containing alkyl group which has 1 to 10 carbon atoms and may have ether bond.

16. (original): The norbornene derivative having a fluorine-containing alcohol structure of Claim 15, wherein in the formula (12),  $Y^1$  and  $Y^2$  are H and  $Y^3$  is F or  $CF_3$ .

17. (original): The norbornene derivative having a fluorine-containing alcohol structure of Claim 15, wherein in the formula (12),  $Y^1$  and  $Y^2$  are F and  $Y^3$  is F or  $CF_3$ .

18. (original): The norbornene derivative having a fluorine-containing alcohol structure of Claim 9, wherein  $Rf^4$  and  $Rf^5$  are  $CF_3$ .

19. (original): The norbornene derivative having a fluorine-containing alcohol structure of Claim 10, wherein  $Rf^4$  and  $Rf^5$  are  $CF_3$ .

20. (original): The norbornene derivative having a fluorine-containing alcohol structure of Claim 11, wherein  $Rf^4$  and  $Rf^5$  are  $CF_3$ .

21. (original): The norbornene derivative having a fluorine-containing alcohol structure of Claim 14, wherein  $Rf^4$  and  $Rf^5$  are  $CF_3$ .

22. (original): The norbornene derivative having a fluorine-containing alcohol structure of Claim 15, wherein  $Rf^4$  and  $Rf^5$  are  $CF_3$ .

23. (original): The norbornene derivative having a fluorine-containing alcohol structure of Claim 9 which has a protective acid-reactive functional group  $-OQ^1$  protecting hydroxyl.



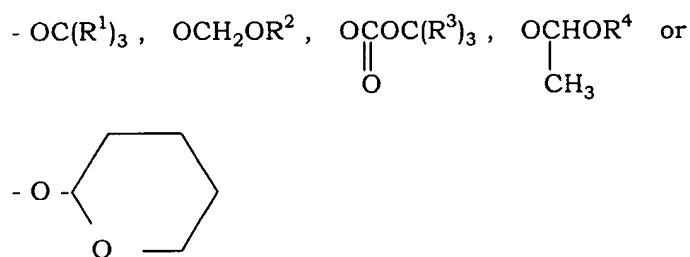
24. (original): The norbornene derivative having a fluorine-containing alcohol structure of Claim 10 which has a protective acid-reactive functional group  $-OQ^1$  protecting hydroxyl.

25. (original): The norbornene derivative having a fluorine-containing alcohol structure of Claim 11 which has a protective acid-reactive functional group  $-OQ^1$  protecting hydroxyl.

26. (original): The norbornene derivative having a fluorine-containing alcohol structure of Claim 14 which has a protective acid-reactive functional group  $-OQ^1$  protecting hydroxyl.

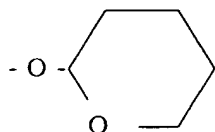
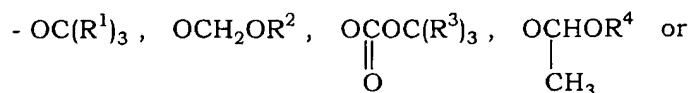
27. (original): The norbornene derivative having a fluorine-containing alcohol structure of Claim 15 which has a protective acid-reactive functional group  $-OQ^1$  protecting hydroxyl.

28. (original): The norbornene derivative of Claim 23, wherein the protective acid-reactive functional group  $-OQ^1$  is at least one selected from the group consisting of:



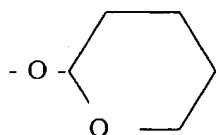
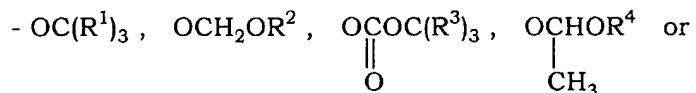
wherein  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  are alkyl groups having 1 to 5 carbon atoms.

29. (original): The norbornene derivative of Claim 24, wherein the protective acid-reactive functional group  $-OQ^1$  is at least one selected from the group consisting of:



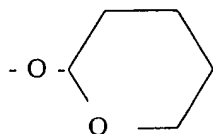
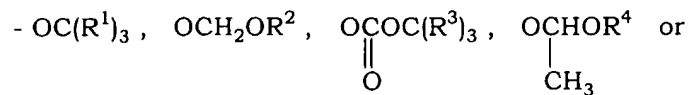
wherein  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  are alkyl groups having 1 to 5 carbon atoms.

30. (original): The norbornene derivative of Claim 25, wherein the protective acid-reactive functional group  $-OQ^1$  is at least one selected from the group consisting of:



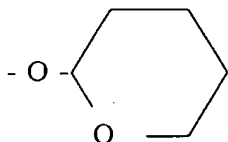
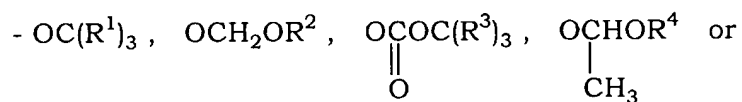
wherein  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  are alkyl groups having 1 to 5 carbon atoms.

31. (original): The norbornene derivative of Claim 26, wherein the protective acid-reactive functional group  $-OQ^1$  is at least one selected from the group consisting of:



wherein  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  are alkyl groups having 1 to 5 carbon atoms.

32. (original): The norbornene derivative of Claim 27, wherein the protective acid-reactive functional group  $-OQ^1$  is at least one selected from the group consisting of:



wherein  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  are alkyl groups having 1 to 5 carbon atoms.

33.-62. (canceled).